

embodiment would be a configuration similar to that of Example 8, *i.e.*, some content may have only one copy and the customer access pattern may impact the system throughput.

As the case with the scenario of Example 8, an I/O admission control algorithm having workload monitoring capability may be advantageously employed under the conditions of this example. Workload monitoring may be implemented, for example, using resource-monitoring capable I/O admission control algorithms such as described herein in relation to Resource Model Equation (19).

For illustration purposes, certain exemplary embodiments described herein relate to use of the disclosed methods and systems in continuous media data delivery embodiments. However, it will be understood with benefit of this disclosure that the disclosed systems and methods may also be advantageously implemented in information delivery environments where data objects of any other kind are managed or delivered. Furthermore, it will be understood that one or more of various possible system components described herein (*e.g.*, resource manager, resource monitor, resource model, cache manager, I/O admission controller, logical volume manager, *etc.*) and/or tasks performed by such components (*e.g.*, resource monitoring, admission control, read-ahead determination, *etc.*) and/or combinations of such components, may be implemented logically and/or physically using any software and/or hardware configuration suitable for performance of one or more of such tasks described herein. For example, resource monitoring, resource modeling and/or resource management tasks may be implemented in a separate storage processing engine, and/or may be implemented as part of another I/O subsystem or processing engine of an information management system.

While the invention may be adaptable to various modifications and alternative forms, specific embodiments have been shown by way of example and described herein. However, it should be understood that the invention is not intended to be limited to the particular forms disclosed. Rather, the invention is to cover all modifications, equivalents, and alternatives falling within the spirit and scope of the invention as defined by the appended claims. Moreover, the different aspects of the disclosed systems and methods may be utilized in

various combinations and/or independently. Thus the invention is not limited to only those combinations shown herein, but rather may include other combinations.

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